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1 HW/SW co-design: Automatic generation of bus functional models from transaction level models


 Dongwan Shin, Samar Abdi, Daniel D. Gajski
 January 2004

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This paper presents methodology and algorithms for generating bus functional models from transaction level models in system level design. Transaction level models are often used by designers for prototyping the bus functional architecture of the system. Being at a higher level of abstraction gives transaction level models the unique advantage of high simulation speed. This means that the designer can explore several bus functional architectures before choosing the optimal one. However, the proce ...

2 Adaptive History-Based Memory Schedulers



Ibrahim Hur, Calvin Lin

 December 2004 **Proceedings of the 37th annual International Symposium on Microarchitecture**

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As memory performance becomes increasingly important to overall system performance, the need to carefully schedule memory operations also increases. This paper presents a new approach to memory scheduling that considers the history of recently scheduled operations. This history-based approach provides two conceptual advantages: (1) it allows the scheduler to better reason about the delays associated with its scheduling decisions, and (2) it allows the scheduler to select operations so that they ...

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